



User Information

iE33 Ultrasound System

Voice Control Quick Guide

PHILIPS

Contents

Using Voice Control.....	3
Using the Voice Commands.....	4
Voice Commands.....	5
Common Voice Commands (Most Imaging Modes)	5
2D and M-Mode Commands	6
Color and CPA Commands	7
PW Doppler Commands	8
CW Doppler Commands	9
Tissue Doppler Imaging (TDI) Commands	10
3D Commands	11
Full Volume Commands	12
Stress Echo Commands	12
Live xPlane Commands	13
Using Voice Annotation	14
Voice Annotation Commands	14
Abdominal Annotations	14
Vascular Annotations	17
Cardiology Annotations	20
Vascular TCD Annotations	23

Using Voice Control




For instructions on pairing headsets, and turning headsets on and off, see the headset manufacturer's documentation.

For more details on the following voice control topics, see the *Help* or the *User Manual*:



- Using headsets
- Creating, training, and deleting voice profiles
- Troubleshooting

NOTE

When you use the headset, it may or may not be necessary to press the Call Handling button on the headset to communicate with the system. For more information, see the headset manufacturer's documentation.

1. Put the headset on.
2. Make sure that the headset is turned on and paired with the system.
3. Click . (Press **Pointer** first, and click  twice, if necessary.)
4. For **User**, select your profile or select **Guest**, and then click **Next**.
5. For **Active Headsets**, select your headset and click **Next**.
6. Do one of the following, if necessary:
 - When your headset rings, press the Call Handling button to connect to the system.
 - If prompted, enter the key (**0000**).
7. Do any of the following to use voice control:
 - Say a command. Most controls can be activated by more than one command. For example, to change the box size, you could say “Make” or “Make box” followed by “Wider” or “Taller” or “Larger,” and so on.
 - If voice control is set to use a keyword (indicated by ), start each full command with the word “Vox.”

- To operate a button or key, say the name of the control. Some buttons have two possible commands; for example, “Freeze” and “Unfreeze.”
- To operate a knob, say the name of the knob, followed by “Up” or “Down.” You can also say “Decrease” or “Increase,” followed by name of the knob. To state an increment of change, say a number (1-9). For example, to increase 2D gain, you can say “Increase 2D gain three” or “2D gain” followed by “Up three.”
- To operate a touch screen control, say the name of the control. Controls on a touch screen page are available only when that page is displayed. If a control appears dimmed, it is unavailable based on the current mode.
- To display the next or previous touch screen, say “Next” or “Previous.”
- To click or select an object on the screen, say “Select.”
- To repeat the last command, say “Repeat.”
- To turn the keyword feature on or off, say “Keyword on” or “Vox keyword off.”
- To turn on sleep mode, causing voice control to ignore commands, say “Go to sleep.”
- To make voice control listen again, say “Wake up.”

8. To disable voice control, click  or .

Using the Voice Commands

The voice commands and annotations are listed in the following tables. Observe the following conventions when speaking a command:

- Words in parentheses () are required for a response.
- Words in brackets [] are optional.
- If words are separated by a vertical bar |, an “or” condition exists. Use one word or the other one.
- Commands are arranged in alphabetical order, based on the control name or spoken annotation.

Voice Commands

Table 1 Common Voice Commands (Most Imaging Modes)

acquire
annotate [off on]
arrow
caliper
dual [image]
dual [image] one
dual [image] two
enter
erase arrow
erase all text
erase caliper
erase line
freeze unfreeze
go to sleep
keyword (on off)
left next [menu page]
left previous [menu page]
make (bigger larger smaller) [1-9]
make (narrower wider) [1-9]
make (taller shorter) [1-9]
move (up down left right) [1-9]
pause
print
record
repeat
[right] next [menu page]
[right] previous [menu page]

Table 1 Common Voice Commands (Most Imaging Modes) (Continued)

select

trace

wake up

Table 2 2D and M-Mode Commands

2D [only]

[2D] gain (up | down) [1-9]
(increase | decrease) [2D] gain [1-9]

AGC [on | off]

(compress | compression | dynamic range) (up | down) [1-9]
(increase | decrease) (compress | compression | dynamic range) [1-9]depth (up | down) [1-9]
(increase | decrease) depth [1-9]focus range (up | down) [1-9]
(increase | decrease) focus range [1-9]go (forward | right) [1-9]
go (back | backwards | left) [1-9]

image

(image width) (up | down) [1-9]
(increase | decrease) (image width) [1-9]
image width (larger | bigger | wider | smaller | narrower) [1-9]

iSCAN

magnify (up | down) [1-9]
(increase | decrease) magnify [1-9]
magnify offmake zoom box (bigger | larger | smaller) [1-9]
make zoom box (narrower | wider) [1-9]
make zoom box (taller | shorter) [1-9]

M-mode [off | on]

move [HD] zoom box (up | down | left | right) [1-9]

Table 2 2D and M-Mode Commands (Continued)

move cursor (up down left right) [1-9]
(move) focus (up down) [1-9]
move M-line (left right) [1-9]
move pan (up down left right) [1-9]
output power (up down) [1-9]
(increase decrease) output power [1-9]
(res speed line density frame rate) (up down) [1-9]
(increase decrease) (res speed line density frame rate) [1-9]
SonoCT [off on]
update
XRes [off on]
zoom [off on]

Table 3 Color and CPA Commands

baseline (up down) [1-9]
(increase decrease) baseline [1-9]
(BW black white black and white) suppress [off on]
color [on off]
color gain (up down) [1-9]
(increase decrease) color gain [1-9]
[color] (optimization opt) (up down)
(increase decrease) [color] (optimization opt)
color suppress [on off]
[color TDI] [map] invert
CPA [off on]
CPA gain (up down) [1-9]
(increase decrease) CPA gain [1-9]
[CPA] (optimization opt) (up down)
(increase decrease) [CPA] (optimization opt)

Table 3 Color and CPA Commands (Continued)

CPA suppress [on off]
[DCPA] map
[flow] (optimization opt) (up down) (increase decrease) [flow] (optimization opt)
hide color [off on]
image
[map] invert
make color box (bigger larger smaller) [1-9] make color box (narrower wider) [1-9] make color box (taller shorter) [1-9]
move color box (up down left right) [1-9]
scale (up down) [1-9] (increase decrease) scale [1-9]
(sector width image width) (up down) [1-9] (increase decrease) (sector width image width) [1-9]
steer (left right) [1-9]
[wall] filter (up down) [1-9] (increase decrease) [wall] filter [1-9]
[write] priority (up down) [1-9] (increase decrease) [write] priority [1-9]

Table 4 PW Doppler Commands

[angle] zero sixty [degrees] (vascular only)
baseline (up down) [1-9] (increase decrease) baseline [1-9]
(cursor angle angle correct) (up down) [1-9] (increase decrease) (cursor angle angle correct) [1-9]
(Doppler PW) [off on]
(Doppler PW) gain (up down) [1-9] (increase decrease) (Doppler PW) gain [1-9]

Table 4 PW Doppler Commands (Continued)

High Q [off on] (vascular only)
iSCAN
[map] invert
move sample volume (up down left right) [1-9]
(sample volume size sv size) (up down) [1-9]
(increase decrease) (sample volume size sv size) [1-9]
scale (up down) [1-9]
(increase decrease) scale [1-9]
steer (left right) (vascular only)
update
[wall] filter (up down) [1-9]
(increase decrease) [wall] filter [1-9]

Table 5 CW Doppler Commands

[angle] zero sixty [degrees]
baseline (up down) [1-9]
(increase decrease) baseline [1-9]
(cursor angle angle correct) (up down) [1-9]
(increase decrease) (cursor angle angle correct) [1-9]
(CW continuous wave) [off on]
(CW continuous wave) gain (up down) [1-9]
(increase decrease) (CW continuous wave) gain [1-9]
High Q [off on] (vascular only)
iSCAN
[map] invert
move (CW continuous wave) focus (up down left right) [1-9]

Table 5 CW Doppler Commands (Continued)

scale (up | down) [1-9]
 (increase | decrease) scale [1-9]

update

[wall] filter (up | down) [1-9]
 (increase | decrease) [wall] filter [1-9]

Table 6 Tissue Doppler Imaging (TDI) Commands

(BW | black white | black and white) suppress [off | on]

baseline (up | down) [1-9]
 (increase | decrease) baseline [1-9]

[flow] (optimization | opt) (up | down)

hide TDI [off | on]

make color box (bigger | larger | smaller) [1-9]

make color box (narrower | wider) [1-9]

make color box (taller | shorter) [1-9]

[map] invert

move color box (up | down | left | right) [1-9]

(res speed | line density | frame rate) (up | down) [1-9]
 (increase | decrease) (res speed | line density | frame rate) [1-9]

scale (up | down) [1-9]
 (increase | decrease) scale [1-9]

(sector width | image width) (up | down) [1-9]
 (increase | decrease) (sector width | image width) [1-9]

TDI [off | on]

TDI gain (up | down) [1-9]
 (increase | decrease) TDI gain [1-9]

Table 6 Tissue Doppler Imaging (TDI) Commands (Continued)

[TDI] (optimization opt) (up down) (increase decrease) [TDI] (optimization opt)
TDI suppress [on off]
[write] priority (up down) [1-9] (increase decrease) [write] priority [1-9]

Table 7 3D Commands

2D (page menu screen)
[2D] (optimization opt) (up down) (increase decrease) [2D] (optimization opt)
3D (page menu screen)
[3D] home
3D vision (up down) (increase decrease) 3D vision
back to standby
caliper (page menu screen tab)
color (page menu screen tab)
color vision (up down) [1-9] (increase decrease) color vision [1-9]
dual screen two up
exit [3D]
full screen one up
image management (page menu screen)
[live] 3D [on]
magnify (up down) [1-9] (increase decrease) magnify [1-9] magnify off
make zoom box (bigger larger smaller) [1-9] make zoom box (narrower wider) [1-9] make zoom box (taller shorter) [1-9]

Table 7 3D Commands (Continued)

move zoom box (up | down | left | right) [1-9]

quad screen | four up

render color (page | menu | screen)

render grayscale (page | menu | screen)

save 3D data

XRes [off | on]

zoom [off | on]

Table 8 Full Volume Commands

2D (page | menu | screen | tab)

back to preview

caliper (page | menu | screen | tab)

color (page | menu | screen)

density

exit [full volume]

full volume [off | on]

full volume (page | menu | screen)

image management (page | menu | screen)

render gray scale (page | menu | screen)

Table 9 Stress Echo Commands

accept [view]

accept stage

acquire more loops

(advance | next | previous) view

caliper (page | menu | screen | tab)

lock view [off | on]

Table 9 Stress Echo Commands (Continued)

loop one
loop two
loop three
loop four
pause protocol
protocol
protocol (page menu screen tab)
reject [view]
skip view
view (up down) [1-9]
(increase decrease) view [1-9]
view status

Table 10 Live xPlane Commands

biplane [off on]
xplane [on off]
iSCAN
magnify (up down) [1-9]
(increase decrease) magnify [1-9]
magnify off
[2D] (optimization opt) (up down)
(increase decrease) [2D] (optimization opt)
(rotate rotation) (up down) [1-9]
(increase decrease) (rotate rotation) [1-9]
tilt (up down left right) [1-9]
XRes [off on]
[HD] zoom [off on]

Using Voice Annotation

In voice annotation, the system is susceptible to noise. It is important to enter voice annotation, using the keyword, to speak the commands, and to stop voice annotation. Speaking a series of commands between starting and stopping voice annotation will allow you to do this effectively.

1. Say “Vox annotate.”
2. Say the annotation term. For example, “transverse.” (Remember, the keyword is used to enable voice annotation; it is not used during voice annotation.)
3. To turn off voice annotation, say “annotate off” or “stop.”

See the following tables for the voice annotations.

Voice Annotation Commands

The voice annotations are used when you switch into annotation mode by saying “Vox annotate.”

The voice annotations can be used with any Tissue Specific preset.

Table 11 Abdominal Annotations

Spoken	Displayed
adnexa	ADNX
aorta	AO
appendix	APPENDIX
bladder	BLADDER
body	BODY
bowel	BOWEL
bypass	BYPASS
celiac axis	CELIAC AXIS
cervix	CBD
common bile duct CBD	CVX
common hepatic duct	CHD
cul de sac	CUL DE SAC

Table 11 Abdominal Annotations (Continued)

Spoken	Displayed
duct	DUCT
endometrium	ENDO
fluid	FLUID
fossa	FOSSA
free fluid	FREE FLUID
fundal	FUNDAL
fundus	FUND
gall bladder GB	GB
graft	GRAFT
head	HEAD
hepatic	HEP
inferior mesenteric	IM
inferior vena cava IVC	IVC
junction	JUNCTION
kidney	KIDNEY
left hepatic vein	LHV
left portal vein	LPV
left renal artery	LRA
left renal vein	LRV
liver	LIVER
lobe	LOBE
mid hepatic vein	MHV
midline	MIDLINE
mid portal vein	MPV
ovary	OV
pancreas	PANC

Table 11 Abdominal Annotations (Continued)

Spoken	Displayed
pancreatic	PANCREATIC
pole	POLE
post	POST
post void residual PVR	PVR
pre	PRE
prostate	PROSTATE
pylorus	PYLORUS
rectum	RECTUM
reflux	REFLUX
renal	RENAL
right hepatic vein	RHV
right portal vein	RPV
right renal artery	RRA
right renal vein	RRV
superior mesenteric	SM
superior mesenteric artery	SMA
spleen	SPLEEN
splenic	SPLENIC
stent	STENT
surgery	SURGERY
tail	TAIL
tips	TIPS
ureter	URETER
urethra	URETHRA
uterus	UTERUS
vaginal cuff	VAG CUFF

Table 11 Abdominal Annotations (Continued)

Spoken	Displayed
vagina	VAG
val salva	VAL SALVA
void	VOID
volume	VOL
wall	WALL

Table 12 Vascular Annotations

Spoken	Displayed
aneurysm	ANEUR
anterior cerebral artery ACA	ACA
anterior communicator Acomm ACOA	ACoA
anterior tibial	AT
aorta	AO
augmentation	AUG
axillary	AX
basilar	BASILAR
bifurc bifurcation	BIFURC
brachial	BRACH
bulb	BULB
bypass	BYPASS
celiac axis	CA
cephalic	CEPH
common carotid [artery] CCA	CCA
common femoral	CF
compression	COMP

Table 12 Vascular Annotations (Continued)

Spoken	Displayed
distal	DIST
dorsal	DORSAL
dorsalis pedis	DP
external carotid [artery] ECA	ECA
fossa	FOSSA
gastrocnemius gastroc	GASTROC
graft	GRAFT
greater saphenous	GS
hepatic	HEP
iliac	IL
inferior	INF
inferior mesenteric	IM
inferior vena cava IVC	IVC
innominate	INNOM
internal carotid [artery] ICA	ICA
jugular vein	JV
junction	J
lateral	LAT
left hepatic vein	LHV
left portal vein	LPV
left renal artery	LRA
left renal vein	LRV
lesser saphenous	LS
medial	MED
mid hepatic vein	MHV
mid portal vein	MPV

Table 12 Vascular Annotations (Continued)

Spoken	Displayed
middle cerebral artery MCA	MCA
peroneal	PER
plaque	PLAQUE
popliteal	POP
post	POST
posterior cerebral artery PCA	PCA
posterior communicator Pcomm PCOA	PCoA
posterior tibial	PT
profunda	PROF
proximal	PROXIMAL
radial	RAD
renal	REN
right hepatic vein	RHV
right portal vein	RPV
right renal artery	RRA
right renal vein	RRV
saphenofemoral junction	SFJ
stent	STENT
subclavian	SUBCL
superficial	SUPERFICIAL
superficial femoral	SF
superior	SUPERIOR
superior mesenteric	SM
superior mesenteric artery	SMA
sural	SURAL

Table 12 Vascular Annotations (Continued)

Spoken	Displayed
surgery	SURGERY
terminal	T
term ICA terminal ICA	TICA
thrombus	THROMB
tips	TIPS
ulnar	UL
valve	VALVE
ventral	VENTRAL
vert vertebral	VERT

Table 13 Cardiology Annotations

Spoken	Displayed
aneurysm	aneurysm
aorta	aorta
aorta arch	aorta arch
aortic insufficiency AI	AI
aortic valve	AOV
apex	APEX
apical	APICAL
apical two chamber view	A2CH
apical four chamber view	A4CH
apical five chamber view	A5CH
apical long axis	ALAX
aortic stenosis AS	AS
ascending aorta	ASC AO
atrial septal defect ASD	ASD

Table 13 Cardiology Annotations (Continued)

Spoken	Displayed
coronary artery	CA
descending aorta	DESC AO
effusion	EFFUSION
epigastric	EPIGASTRIC
five chamber	5CH
four chamber	4CH
hepatic	HEP
inferior vena cava	IVC
inter-atrial septum IAS	IAS
interventricular septum IVS	IVS
left atrium LA	LA
left pulmonary artery	LPA
left ventricle LV	LV
left ventricular outflow tract LVOT left ventricular outflow LV outflow	LVOT
long axis	LAX
main pulmonary artery	MPA
mitral annular calcification	MAC
mitral inflow	MITRAL INFLOW
mitral regurgitation mitral regurg MR	MR
mitral stenosis MS	MS
mitral valve	MV
mitral valve prolapse MVP	MVP
parasternal	PARASTERNAL
parasternal long axis	PLAX

Table 13 Cardiology Annotations (Continued)

Spoken	Displayed
parasternal short axis	PSAX
patent ductus arteriosus PDA	PDA
pericardial	PERICARDIAL
pulmonary artery PA	PA
pulmonary vein PV	PULM VEIN
pulmonic insufficiency PI	PI
pulmonic valve	PV
right atrium RA	RA
right pulmonary artery	RPA
right ventricle RV	RV
right ventricular outflow tract RVOT	RVOT
short axis	SAX
shunt	SHUNT
stenosis	STENOSIS
subcostal	SUBCOSTAL
subcostal four chamber view sub4ch	SUB4CH
superior vena cava SVC	SVC
suprasternal suprasternal notch	SS
thrombus	THROMBUS
tricuspid regurgitation TR	TR
transgastric	TRANSGASTRIC
tricuspid valve	TV
2 chamber	2CH

Table 13 Cardiology Annotations (Continued)

Spoken	Displayed
val salva	VAL SALVA
vegetation	VEGE
ventricular septal defect VSD	VSD

Table 14 Vascular TCD Annotations

Spoken	Displayed
one	1
two	2
anterior cerebral artery ACA	ACA
anterior communicating artery ACoA	ACoA
basilar	Basilar
bifurcation	Bifurcation
foramen [magnum] window	Foramen Window
internal carotid artery ICA	ICA
middle cerebral artery MCA	MCA
MCA ACA	MCA/ACA
ophthalmic artery OA	OA
orbital window	Orbital Window
posterior cerebral artery PCA	PCA
posterior communicating artery PCOA	PCoA
siphon	Siphon
submandibular window	Submandib Window
terminal term	Term
transtemporal window	Transtemp Window
vertebral	Vertebral

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